

## Shapes of molecules

**QUESTION:** For each of the molecules shown in the table

i) draw a 3dimensional (3D) arrangement of the atoms in each molecule

ii) name the shape of each molecule

iii) state the bond angles

$\text{ICl}_2^-$	$\text{IF}_5$	$\text{PCl}_3$
$\text{PCl}_5$	$\text{SF}_6$	$\text{SF}_4$
$\text{ClF}_3$	$\text{AsF}_5$	$\text{IF}_3$
$\text{NF}_3$	$\text{XeF}_4$	$\text{BrF}_3$
$\text{BrF}_4^-$	$\text{BrF}_5$	$\text{AsF}_3$
$\text{BF}_3$	$\text{PF}_3$	$\text{ICl}_4^-$